SPYWOLF

Security Audit Report

Completed on
April 5, 2023

OVERVIEW

This audit has been prepared for **Kitties** to review the main aspects of the project to help investors make make an informative decision during their research process.

You will find a a summarized review of the following key points:

- ✔ Contract's source code
- ✔ Owners' wallets
- ✔ Tokenomics
- ✔ Team transparency and goals
- ✔ Website's age, code, security and UX
- ✔ Whitepaper and roadmap
- ✔ Social media & online presence

"

The results of this audit are purely based on the team's evaluation and does not guarantee nor reflect the projects outcome and goal

– SPYWOLF Team –

"

TABLE OF CONTENTS

Kitties

PROJECT DESCRIPTION

According to their website:

$KITTIES is a crypto token which is available on the Ethereum Chain (ETH). This token will offer many different suitable utilities to its audience including Player Vs Player (PVP) games, AI Bots and Social apps which will be used to host competitive tournaments.

Release Date: Launched on April 3rd, 2023

Category: Meme token

01

CONTRACT INFO

Token Name
Kitties

Symbol
KTS

Contract Address
0x938cD937Facf441558044455e4F60AF6a473c045

Network
Ethereum

Language
Solidity

Deployment Date
Apr 03, 2023

Verified?
Yes

Total Supply
100,000,000

Status
Launched

TAXES

Buy Tax
4%

Sell Tax
4%

*Taxes can be changed in future

Our Contract Review Process

The contract review process pays special attention to the following:

- ✓ Testing the smart contracts against both common and uncommon vulnerabilities
- ✓ Assessing the codebase to ensure compliance with current best practices and industry standards.
- ✓ Ensuring contract logic meets the specifications and intentions of the client.
- ✓ Cross referencing contract structure and implementation against similar smart contracts produced by industry leaders.
- ✓ Thorough line-by-line manual review of the entire codebase by industry experts.

Blockchain security tools used:

- OpenZeppelin
- Mythril
- Solidity Compiler
- Hardhat

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TOKEN TRANSFERS STATS

Transfer Count	1067
Uniq Senders	152
Uniq Receivers	267
Total Amount	367984001.50144863 KTS
Median Transfer Amount	49915.58170149958 KTS
Average Transfer Amount	344877.22727408493 KTS
First transfer date	2023-04-03
Last transfer date	2023-04-05
Days token transferred	3

SMART CONTRACT STATS

Calls Count	1989
External calls	277
Internal calls	1762
Transactions count	713
Uniq Callers	217
Days contract called	3
Last transaction time	2023-04-05 10:59:35 UTC
Created	2023-04-03 19:15:23 UTC
Create TX	0x9f2e8a6b88d5c653c0db6cb33eace5644697c47af976c612d2891ecff15e4c9f
Creator	0x5b01b9af370e04ba6eb66fd8a4a91c58129e1419

VULNERABILITY CHECK

Design Logic	Passed
Compiler warnings.	Passed
Private user data leaks	Passed
Timestamp dependence	Passed
Integer overflow and underflow	Passed
Race conditions and reentrancy. Cross-function race conditions	Passed
Possible delays in data delivery	Passed
Oracle calls	Passed
Front running	Passed
DoS with Revert	Passed
DoS with block gas limit	Passed
Methods execution permissions	Passed
Economy model	Passed
Impact of the exchange rate on the logic	Passed
Malicious Event log	Passed
Scoping and declarations	Passed
Uninitialized storage pointers	Passed
Arithmetic accuracy	Passed
Cross-function race conditions	Passed
Safe Zeppelin module	Passed
Fallback function security	Passed

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THREAT LEVELS

When performing smart contract audits, our specialists look for known vulnerabilities as well as logical and access control issues within the code. The exploitation of these issues by malicious actors may cause serious financial damage to projects that failed to get an audit in time. We categorize these vulnerabilities by the following levels:

High Risk

Issues on this level are critical to the smart contract's performance/functionality and should be fixed before moving to a live environment.

Medium Risk

Issues on this level are critical to the smart contract's performance/functionality and should be fixed before moving to a live environment.

Low Risk

Issues on this level are minor details and warning that can remain unfixed.

Informational

Information level is to offer suggestions for improvement of efficacy or security for features with a risk free factor.

FOUND THREATS

⚠️ High Risk

Authorized user can set buy/sell fees up to 45%.
Combined buy+sell = 90%.
When fees are above 0, there will be certain amount of tokens that will be deducted from every transaction that users make.
Deducted amount will be as much as the fees % from total amount that user had bought, sold and/or transferred.

```
function setFees(
    uint256 _marketingRatio,
    uint256 _liquidityRatio,
    uint256 _sellFee,
    uint256 _buyFee
) external authorized {
    sellFee = _sellFee;
    buyFee = _buyFee;
    marketingRatio = _marketingRatio;
    liquidityRatio = _liquidityRatio;
    feeRatio = liquidityRatio.add(marketingRatio);
    require(sellFee < 45 && buyFee < 45, "Fees cannot be more than 45%");
}
```

- Recommendation:
    - Considered as good tax deduction practice is buy and sell fees combined not to exceed 25%.
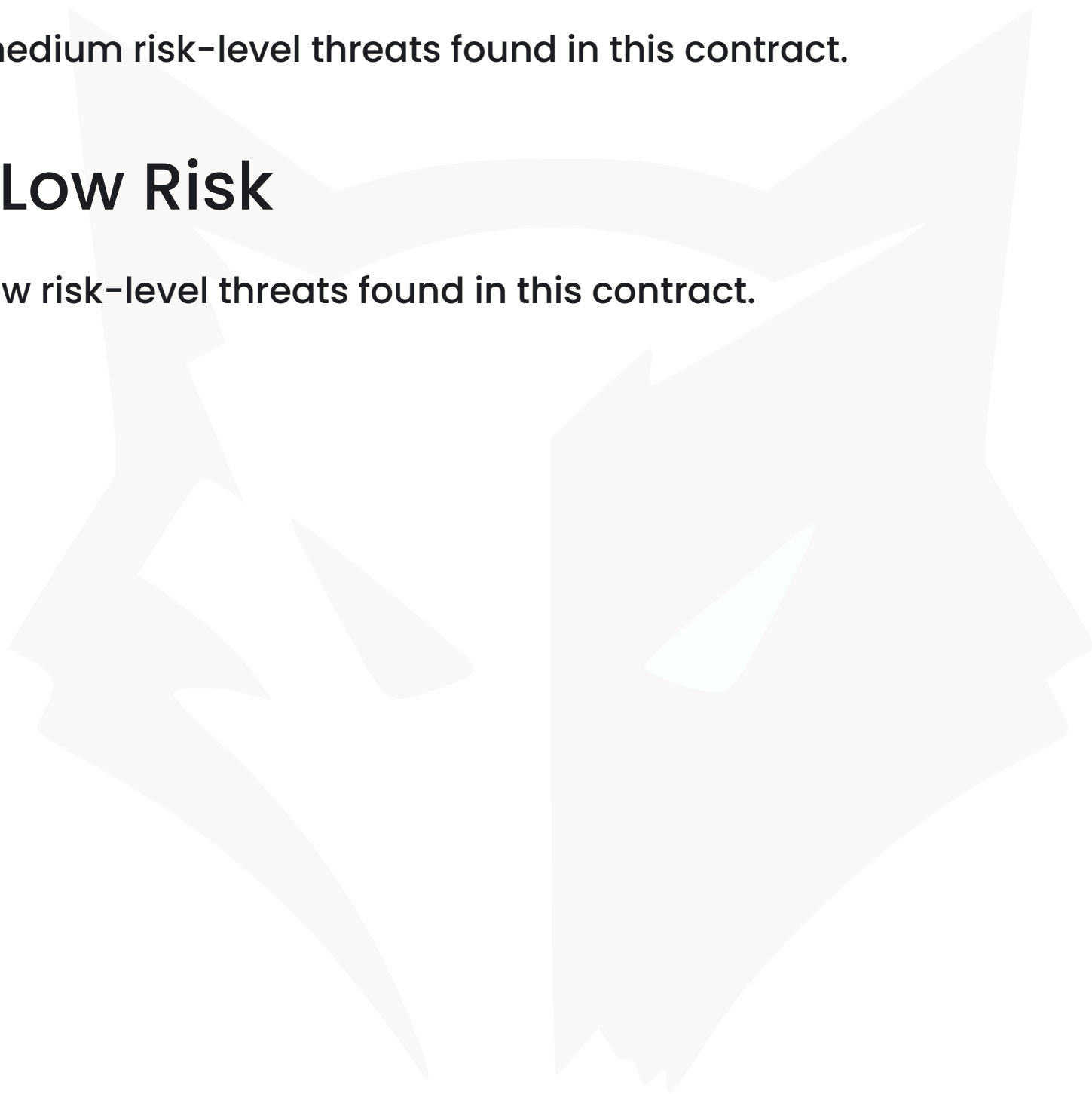
FOUND THREATS

⚠️ Medium Risk

No medium risk-level threats found in this contract.

⚠️ Low Risk

No low risk-level threats found in this contract.

06-B

ⓘ Informational

Authorized user can exclude address from fees, transaction limit and max wallet limit. Such limitations won't apply on excluded address.

```solidity
function setIsFeeExempt(address holder, bool exempt) external authorized {
    isFeeExempt[holder] = exempt;
}

function setIsTxLimitExempt(address holder, bool exempt)
    external
    authorized
{
    isTxLimitExempt[holder] = exempt;
}

function setIsWalletLimitExempt(address holder, bool exempt)
    external
    authorized
{
    isWalletLimitExempt[holder] = exempt;
}
```

06-C

ℹ️ Informational

Contract's ownership is renounced and owner only functions are not usable. Only authorised users functions are still in effect.
Previous contract's owner privileges were:

Set max wallet and max transaction limit.

```solidity
function setLimits(uint256 maxWallPercent, uint256 maxTXPercent)
    external
    onlyOwner
{

    _maxWalletToken = _totalSupply.mul(maxWallPercent).div(1000);
    _maxTxAmount = _totalSupply.mul(maxTXPercent).div(1000);
}
```

Blacklist address from trading.

```solidity
function blacklist(address addrs, bool value) external onlyOwner {
    _isBlacklisted[addrs] = value;
}
```

06-D

RECOMMENDATIONS FOR
GOOD
PRACTICES

1. Consider fundamental tradeoffs

2. Be attentive to blockchain properties

3. Ensure careful rollouts

4. Keep contracts simple

5. Stay up to date and track development

Kitties

GOOD PRACTICES FOUND

✓ The owner cannot mint new tokens after deployment

✓ The owner cannot stop or pause the contract

✓ The owner cannot set a transaction limit

✓ The smart contract utilizes "SafeMath" to prevent overflows

Current tokens distribution according to Etherscan:

- 50% – Burnt
- 10.3% – Liquidity pair *
- 7.47% – Tokens vesting*
- 7% – Top 5 holders
- 25.2% – Rest of the holders

Tokens distribution

Rest of holders
25,2%

Top 5 holders
7,0%

Tokens vesting
7,5%

Liquidity pair
10,3%

Burnt
50,0%
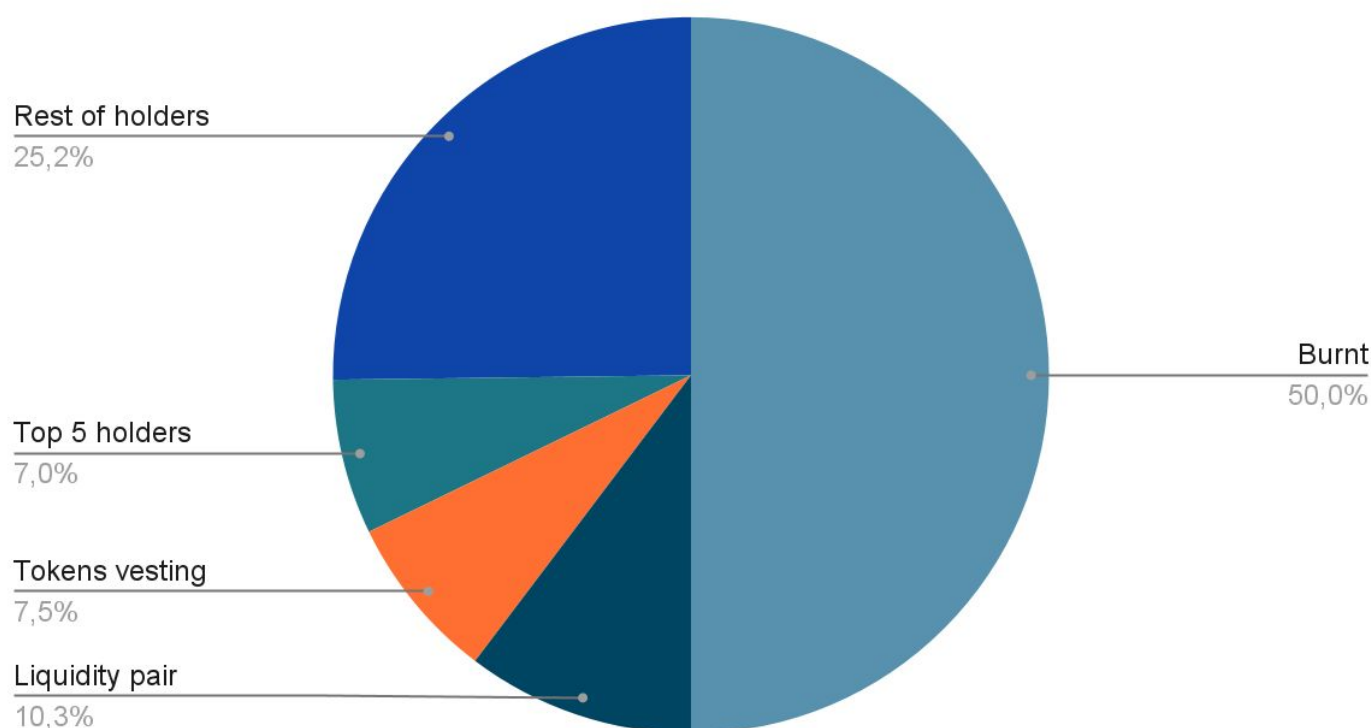
*Tokens vesting lock period information:
98.9% of liquidity is locked - unlocks at 03/07/2023 13:00
2,500,000 tokens unlocks at 10 April 2023, 13:00
4,970,000 tokens unlocks at 17 April 2023, 13:00

For more information visit:
https://app.uncx.network/amm/uni-v2/pair/0xAFa099A0bE031E87eFA62
07A9D6885F9a2a91B29
https://app.uncx.network/amm/uni-v2/token/0x938cD937Facf44155804
4455e4F60AF6a473c045

TOKENOMICS

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THE TEAM

KYC INFORMATION

⚠️ No KYC

We recommend the team to get a KYC in order to ensure trust and transparency within the community.

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Website URL
https://www.kittieseth.com/

Domain Registry
https://www.namecheap.com

Domain Expiration
Expires on 2024-03-27

Technical SEO Test
Passed

Security Test
Passed. SSL certificate present

Design
Single page with appropriate color scheme.

Content
The information helps new investors understand what the product does right away. No grammar mistakes found.

Whitepaper
No

Roadmap
No

Mobile-friendly?
Yes

REVOLUTION OF CRYPTO GAMING

$KITTIES

HOME

Gaming · $KITTIES|| 3D Graphic

ES · Revolution of Crypto-Gaming

VIEW OUR UTILITIES · VIEW PROJECT
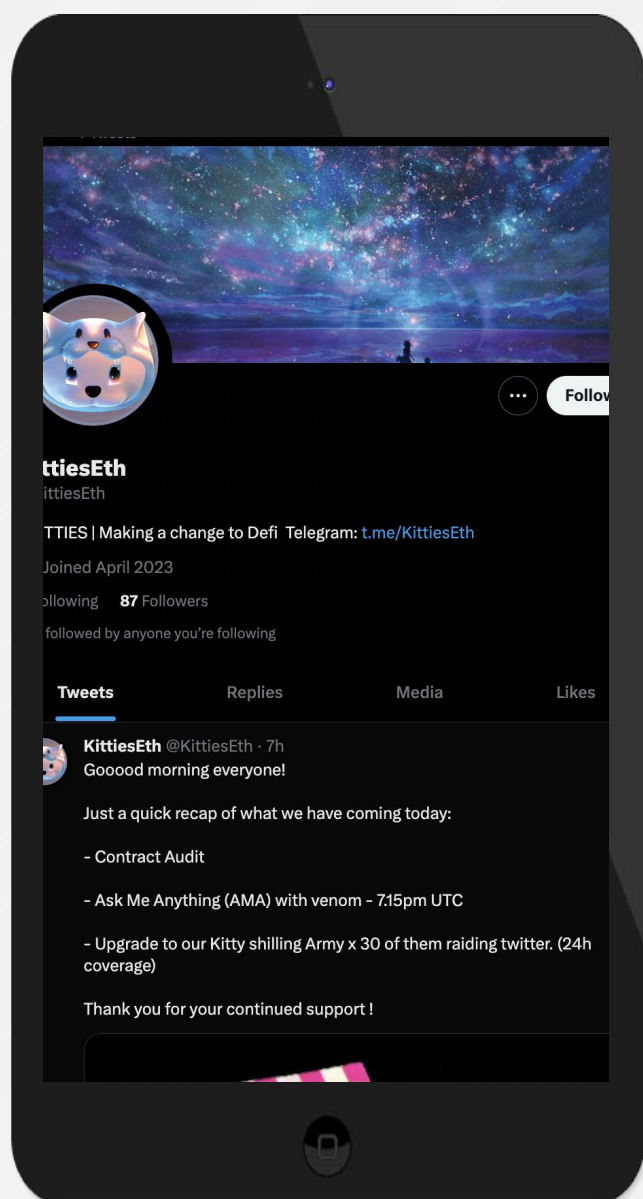
kittieseth.com

SOCIAL MEDIA

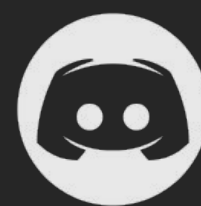## & ONLINE PRESENCE

ANALYSIS
Project's social media are active with organic users

Twitter

@KittiesEth

- 81 followers
- Active
- Total 7 posts - made in 3 days

Discord

- Not available

Telegram

@KittiesEth

- 632 members
- Active members
- Active mods

Medium

- Not available

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SPYWOLF
CRYPTO SECURITY

Audits | KYCs | dApps
Contract Development

ABOUT US

We are a growing crypto security agency offering audits, KYCs and consulting services for some of the top names in the crypto industry.

- ✔ **OVER 400 SUCCESSFUL CLIENTS**

- ✔ **MORE THAN 500 SCAMS EXPOSED**

- ✔ **MILLIONS SAVED IN POTENTIAL FRAUD**

- ✔ **PARTNERSHIPS WITH TOP LAUNCHPADS, INFLUENCERS AND CRYPTO PROJECTS**

- ✔ **CONSTANTLY BUILDING TOOLS TO HELP INVESTORS DO BETTER RESEARCH**

To hire us, reach out to contact@spywolf.co or t.me/joe_SpyWolf

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🐦 @SPYWOLFNETWORK

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Disclaimer

This report shows findings based on our limited project analysis, following good industry practice from the date of this report, in relation to cybersecurity vulnerabilities and issues in the framework and algorithms based on smart contracts, overall social media and website presence and team transparency details of which are set out in this report. In order to get a full view of our analysis, it is crucial for you to read the full report.

While we have done our best in conducting our analysis and producing this report, it is important to note that you should not rely on this report and cannot claim against us on the basis of what it says or doesn't say, or how we produced it, and it is important for you to conduct your own independent investigations before making any decisions. We go into more detail on this in the disclaimer below – please make sure to read it in full.

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No applications were reviewed for security. No product code has been reviewed.